

I claim:

*Sub A5*

1. An improved distillation device comprising: an enclosed outer tube having a central axis for holding liquids, said outer tube having a cross section of ovoid construction and having an upper section, said upper section having a portion of "V" shape, said "V" shape having an apex portion of the "V" and an open portion of the "V", said apex portion pointed in the direction of said central axis of said outer tube, a trough portion running parallel to said central axis, said trough portion of curved surface so as to collect liquids that condense on said upper section and fall into said trough portion.
2. The apparatus of claim 1 wherein said outer tube has a lower section, said lower section having a material that is reflective of radiation, said reflective material so disposed on said lower section so as to reflect solar radiation upward in the direction of the liquid in said outer tube.
3. The apparatus of claim 1 wherein said lower portion has a darker coloring so as to enhance the absorption of said solar radiation.
4. The apparatus of claim 1 wherein said upper section has a material that is photochromic in nature so as to get darker in color in response to changes in the intensity of said radiation.
5. The apparatus of claim 1 wherein said outer tube is of an enclosed construction and having a vaccum forming means in connection with said outer tube so as to enhance the distillation of said liquid.
6. The apparatus of claim 1 wherein said lower portion has a focusing means in order to focus sunlight on said liquid.

7. An improved distillation device comprising: an enclosed outer tube having a central axis for holding liquids, said outer tube having a cross section of ovoid construction,  
5 a pair of trough portions running parallel to said central axis and in connection with said inner surface of said outer tube, said trough portions located on opposite sides of said outer tube and of curved surface so as to collect liquids that condense on said upper section and fall into said trough portions.  
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8. The apparatus of claim 7 wherein said outer tube has a lower section, said lower section having a material that is reflective of radiation, said reflective material so disposed  
15 on said lower section so as to reflect solar radiation upward in the direction of the liquid in said outer tube.

9. The apparatus of claim 7 wherein said lower portion has a darker coloring so as to enhance the absorption of said solar  
20 radiation.

10. The apparatus of claim 7 wherein said upper section has a material that is photochromic in nature so as to get darker in color in response to changes in the intensity of said  
25 radiation.

*Sub B1*  
30 11. The apparatus of claim 7 wherein said outer tube is of an enclosed construction and having a vaccuum forming means in connection with said outer tube so as to enhance the distillation of said liquid.

12. The apparatus of claim 7 wherein said lower portion has a focusing means in order to focus sunlight on said liquid.

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*Add B2*

*Add D*